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Navigation Infrastructure in the Rock Island District

Presented by
Col. William Bayles
Commander
Rock Island District
U.S. Army Corps of Engineers

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National Research Council

- **Include Equal Consideration for Fish & Wildlife Resources**
- **Address Effects of Existing Nine-Foot Channel Project**
- **Defensible 50-Year Forecasts Are Unlikely To Be Achieved**
- **Spatial Equilibrium Model Used Is Incomplete & Should Be Further Developed; Lacked Sufficient Data to Support Assumptions**

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Federal Principals Task Force

- Fish & Wildlife Service
- Environmental Protection Agency
- Maritime Administration
- Department of Agriculture
- Corps of Engineers

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Federal Principals Task Force

(Continued)

- **Include Equal Consideration for Fish & Wildlife Resources -- CONCUR**
- **Address Effects of Existing Nine-Foot Channel Project -- CONCUR**
- **Defensible 50-Year Forecasts Are Unlikely To Be Achieved -- CONCUR. RECOMMEND SCENARIO ANALYSIS**
- **Spatial Equilibrium Model Used Is Incomplete & Should Be Further Developed; Lacked Sufficient Data to Support Assumptions -- NON-CONCUR. SPATIAL MODEL SHOULD BE DEVELOPED SEPARATE FROM STUDY**

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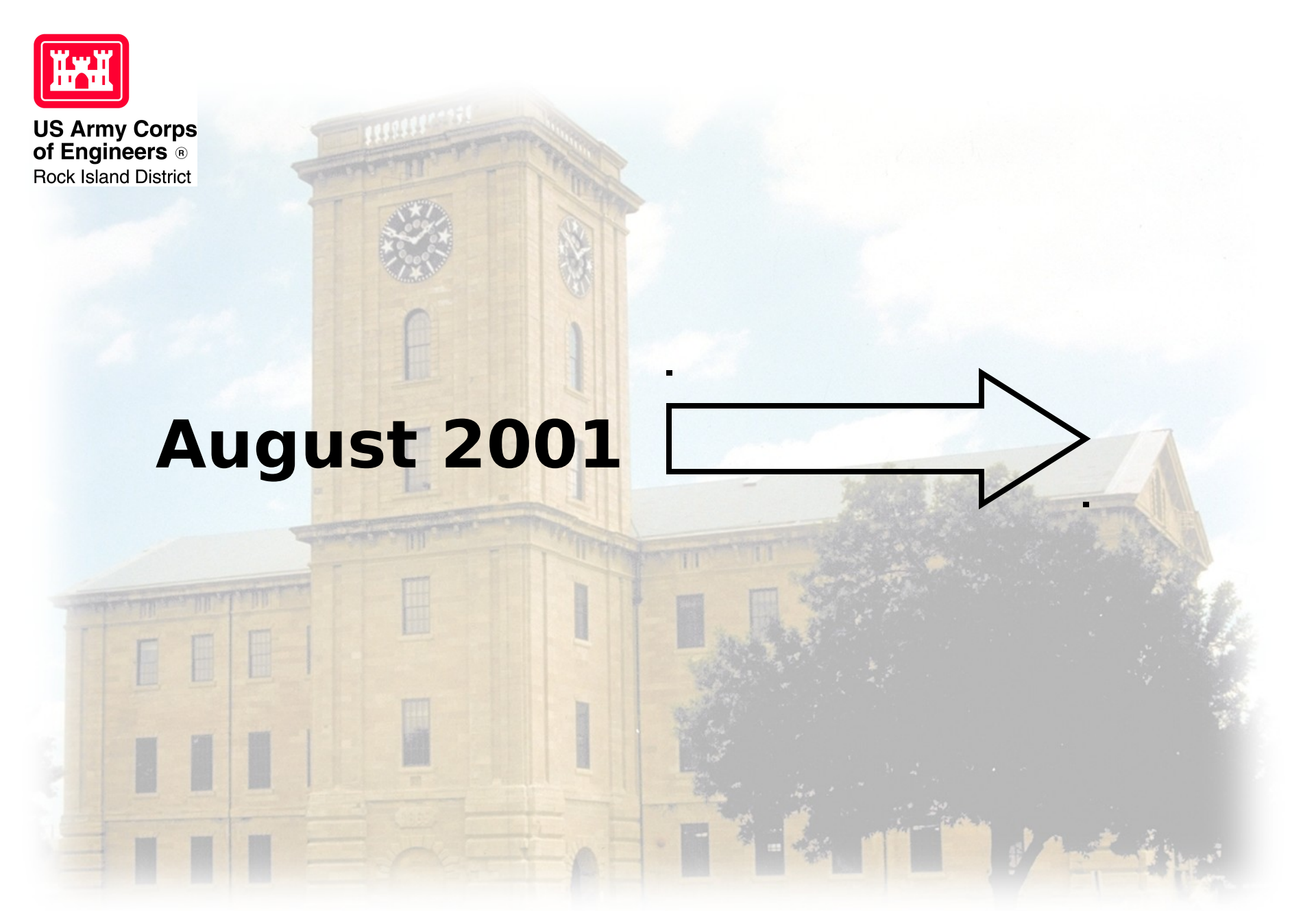

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Scope & Objectives

Scope: Focus on Authorized Federal Navigation Projects & the Ecological & Floodplain Resources That Are Affected by These Projects

Objectives

- **Relieve Lock Congestion**
- **Achieve Environmental Sustainable System**
- **Address Ecosystem, Floodplain Management Needs Related to Navigation**

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Collaboration

Economic Sustainability

Environmental

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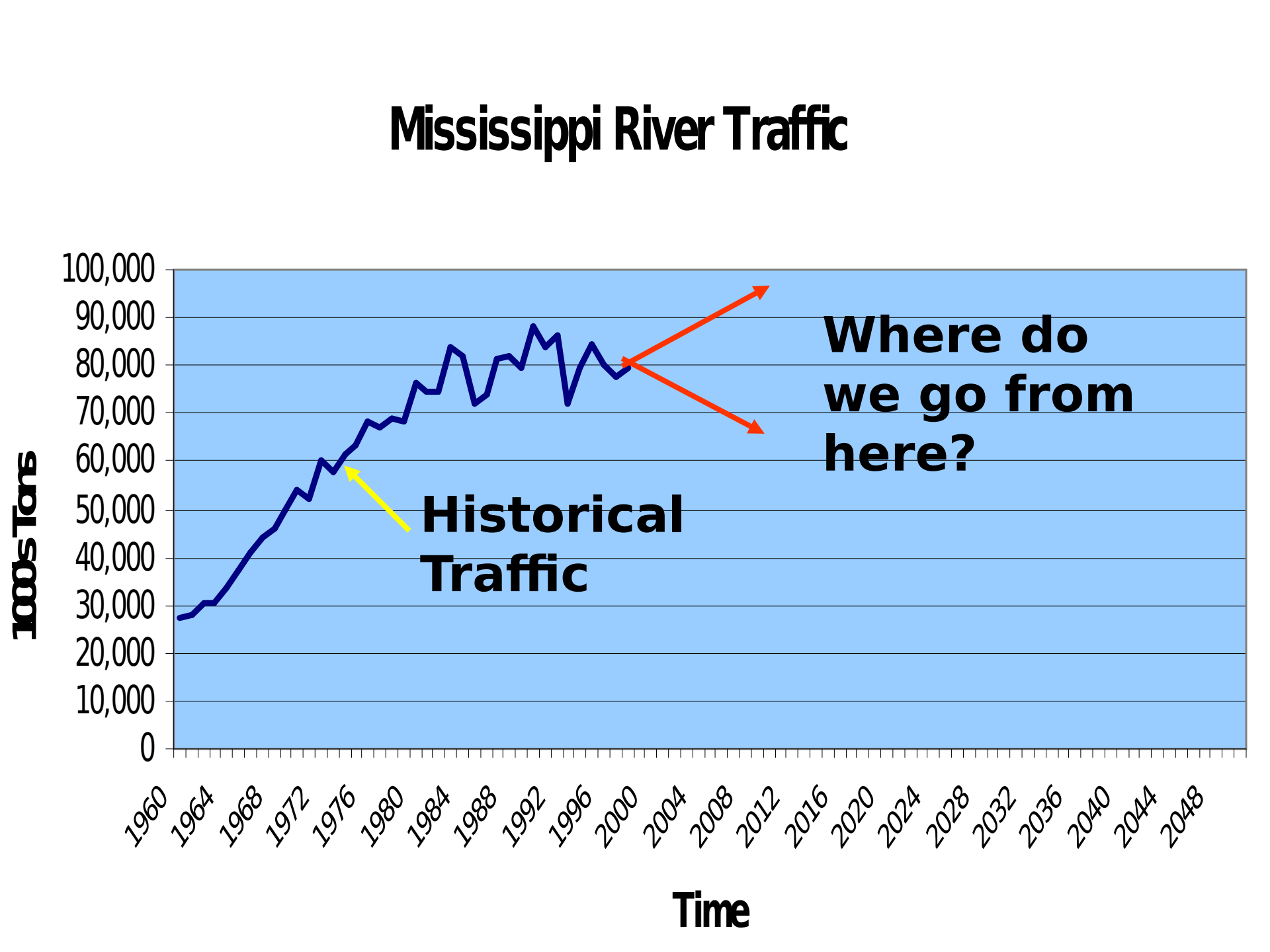
Joint ECC/NECC Meeting

Developed common understanding of sustainability

"The balance of economic, ecological, and social conditions so as to meet the current, projected, and future needs of the Upper Mississippi River System without compromising the ability of future generations to meet their needs."

ECC-Economic Coordinating Committee

NECC-Navigation Environmental Coordination Committee


Mississippi River Traffic
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
1000s Tons
1960
1964
1968
1972
1976
1980
1984
1988
1992
1996
2000
2004
2008
2012
2016
2020
2024
2028
2032
2036
2040
2044
2048
Time
Historical Traffic
Where do we go from here?

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Scenario Development

Scenario Drivers - Trends, Policies, Conditions, & Events That Impact U.S. Agricultural Production, Utilization & Export Prospects

- **World Trade Drivers**
- **Crop Area Drivers**
- **Crop Yield Drivers**
- **Consumption Drivers**

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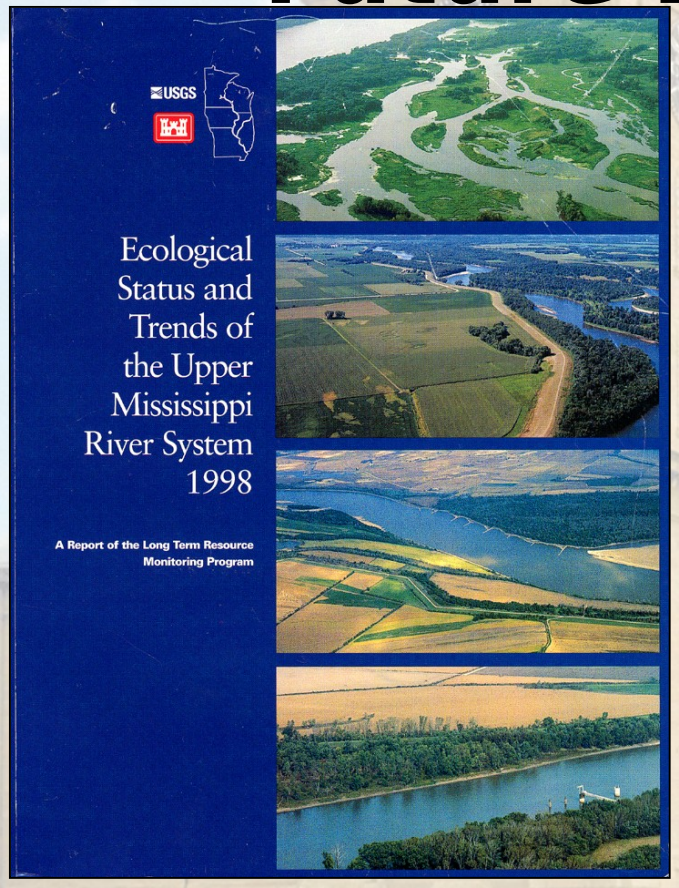
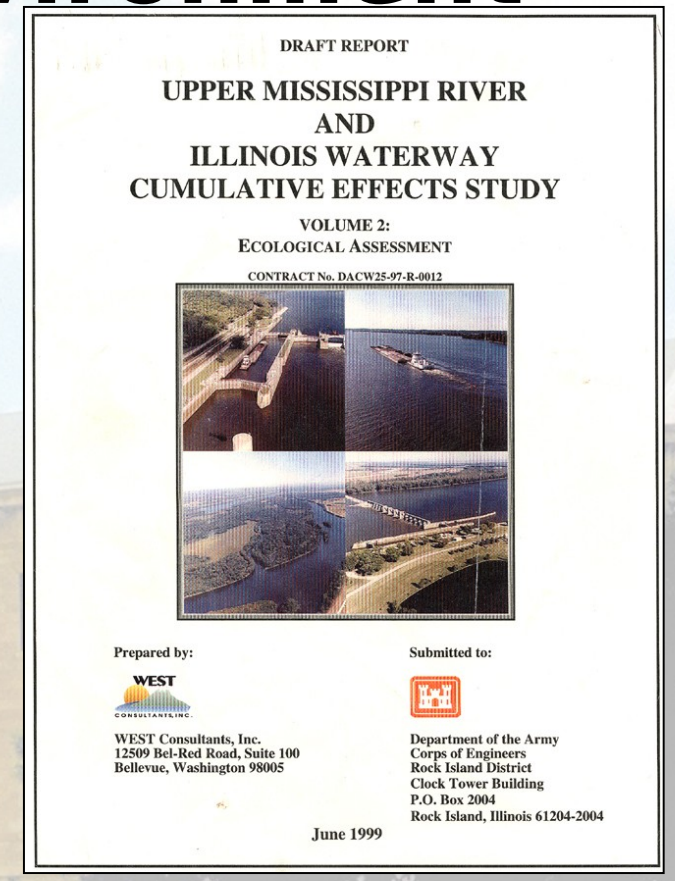
Forecasting the Future Environment


USGS
Ecological Status and Trends of the Upper Mississippi River System 1998
A Report of the Long Term Resource Monitoring Program



Status & Trends Report

Cumulative Effects Study

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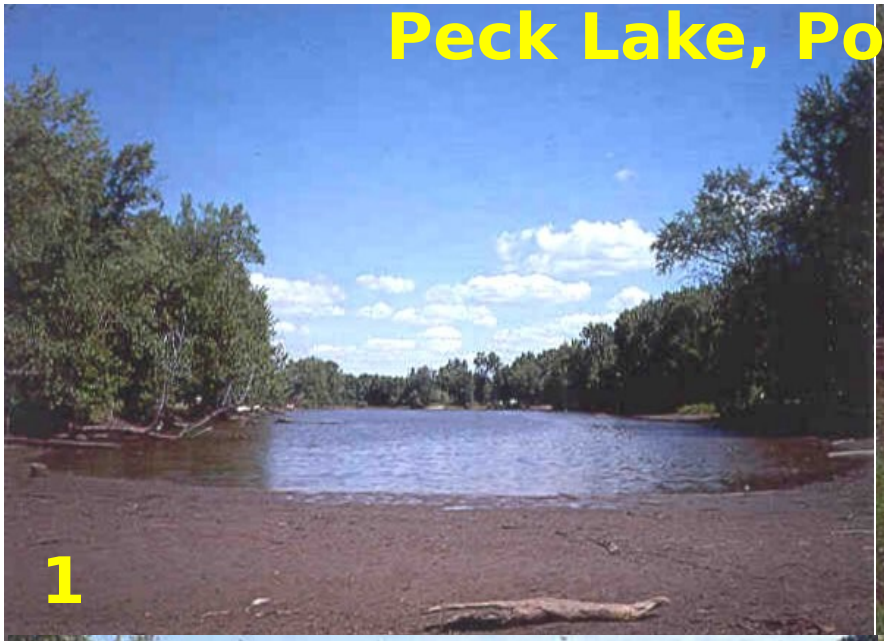
ter-Level Management to Improve Aquatic Hab

Peck Lake, Pool 9, Wisconsin



Island Protection & Restoration

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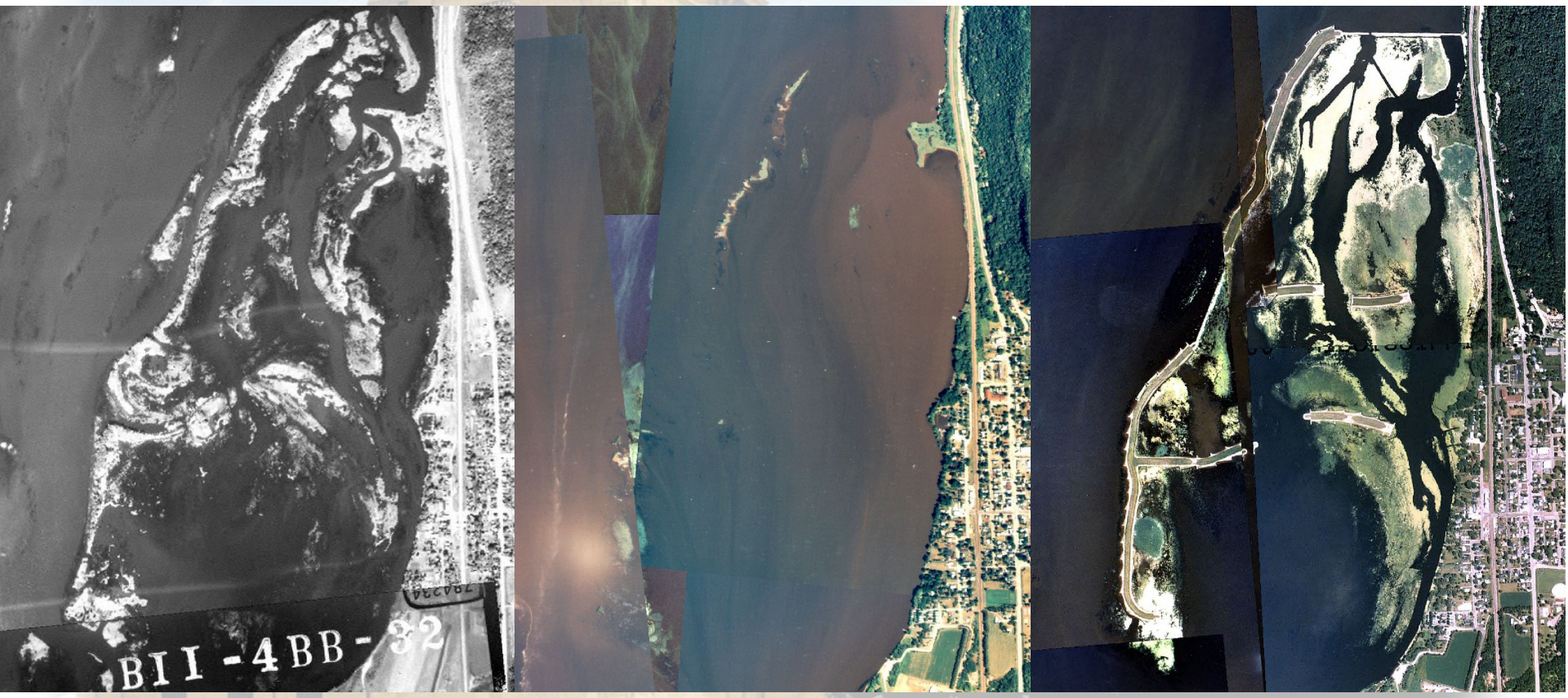
Pool 8 Islands HREP Phase II, Near Stoddard, Wisconsin



October 1961 | August 1994 | August 2000

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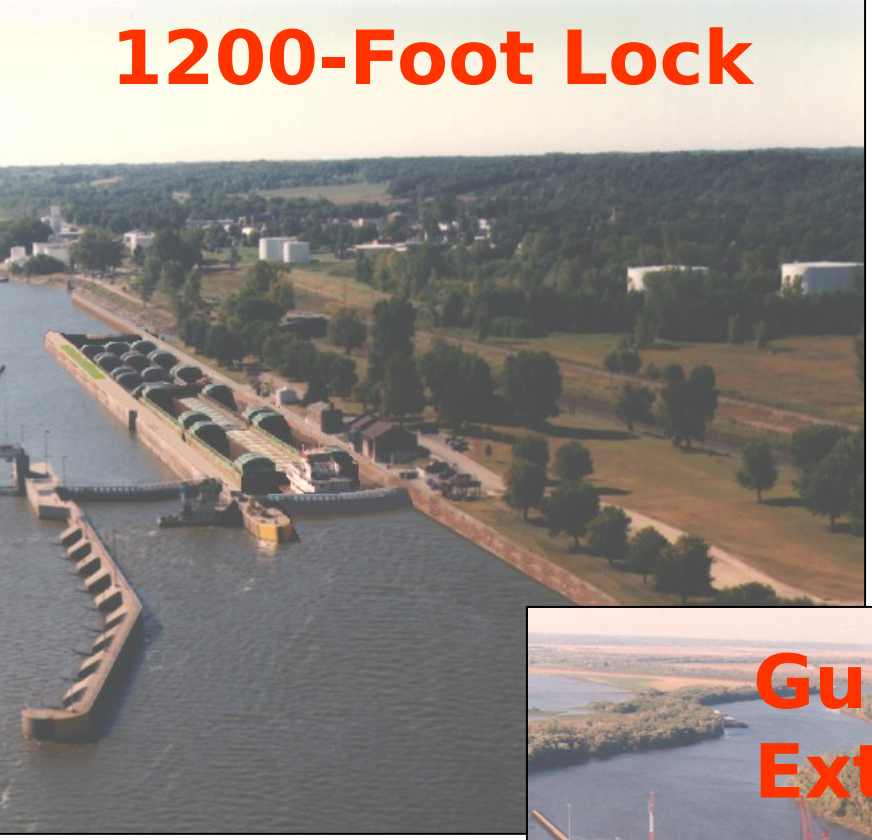
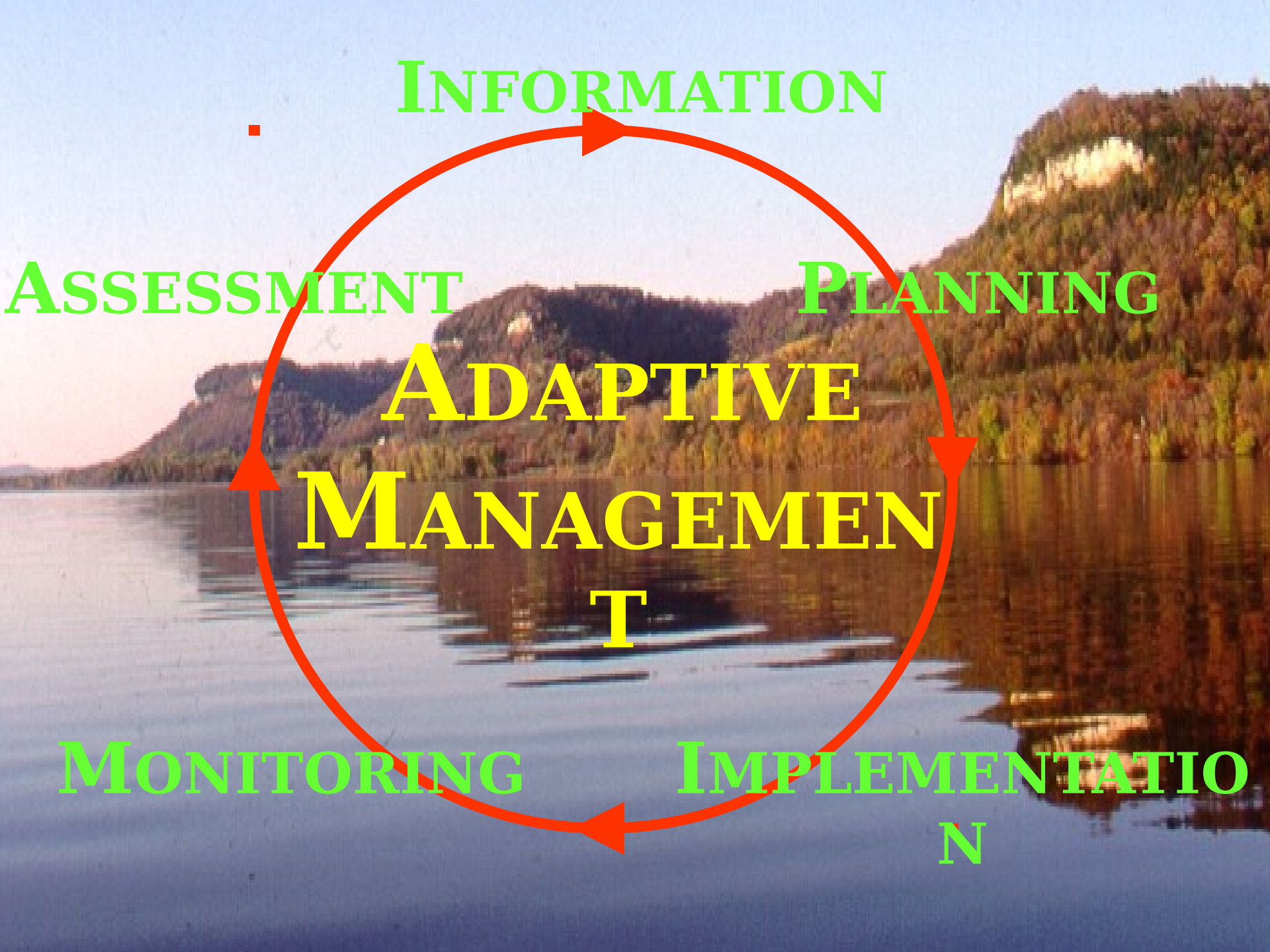
Non-Structural Measures

- Industry Self-Help
- Scheduling
- N-Up/N-Down Policy
- Congestion Fees
- Tradable Permits

Structural Measures




Information
Planning
Implementation
Monitoring
Assessment
Adaptive Management

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Interim Report July 2002

- Restructured Philosophy
- Blueprint for Moving Forward
- Snapshot of Evaluation
- Implementation Issues
- Recommendations??

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Current Schedule

Interim Report

- Complete Draft Interim Report — May 02
- Submit Interim Report to USACE — July 02

Feasibility Report

- Tentative Plan — Winter 03
- Public Meetings — Spring 03
- Draft Feasibility Report — Winter 04
- Division Commander's Notice — Summer 04
- Chief's Report — Fall 04

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For More Information

- **Internet Homepage Address:**
  www.mvr.usace.army.mil/publicaffairsoffice/navigationstudy.htm
- **Newsletters**
- **Toll Free Telephone Number:**
  800/872-8822
- **Denny Lundberg 309/794-5632**
  Denny.A.Lundberg@mvr02.usace.army.mil

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Lock 12 Before Rehabilitation

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Early Part of the Closure

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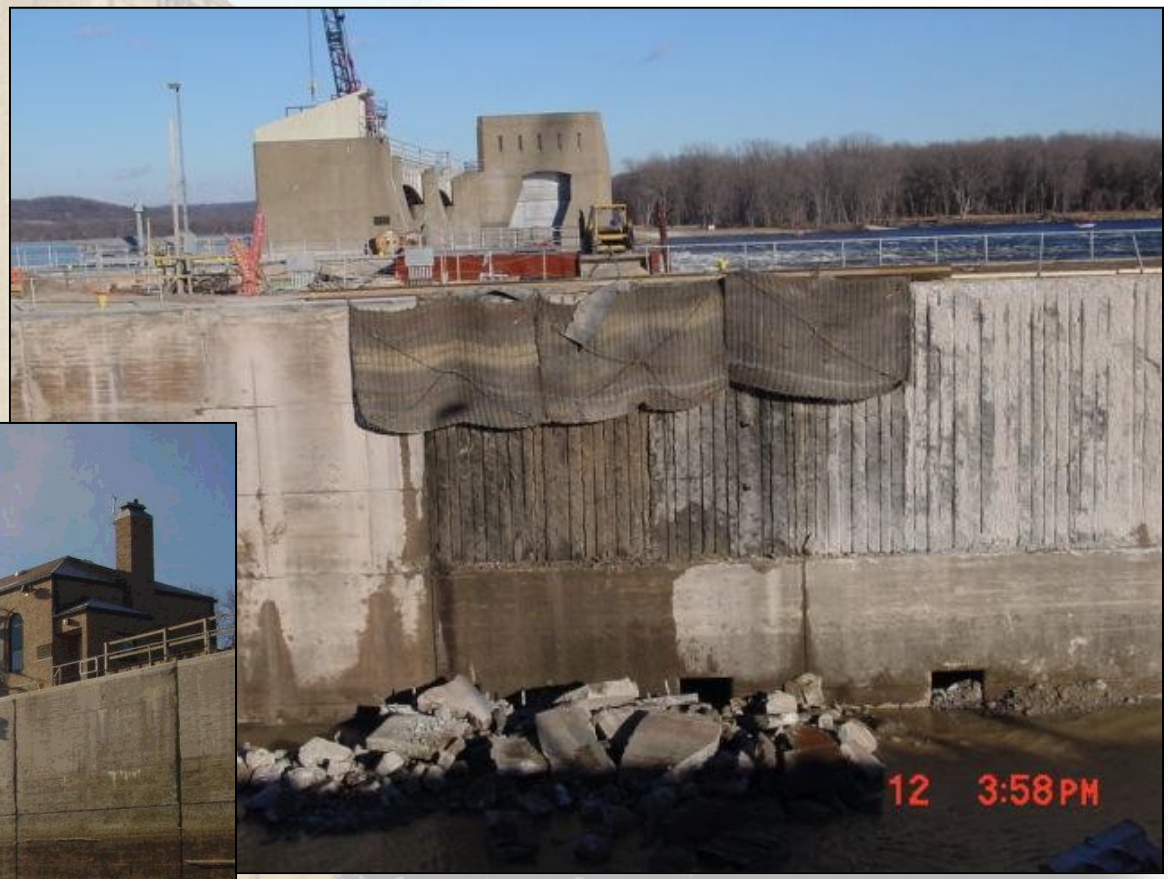
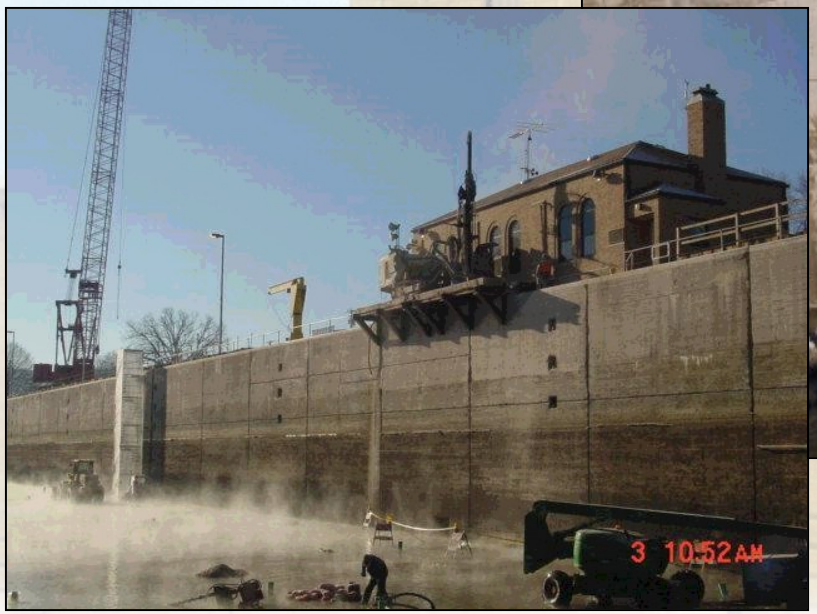
Removing Concrete Walls





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Installing Pre-Cast Panels

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Installing Electrical Components

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Challenges

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Rewatered

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